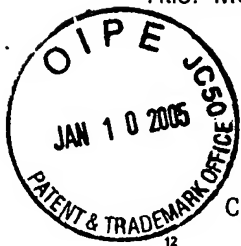
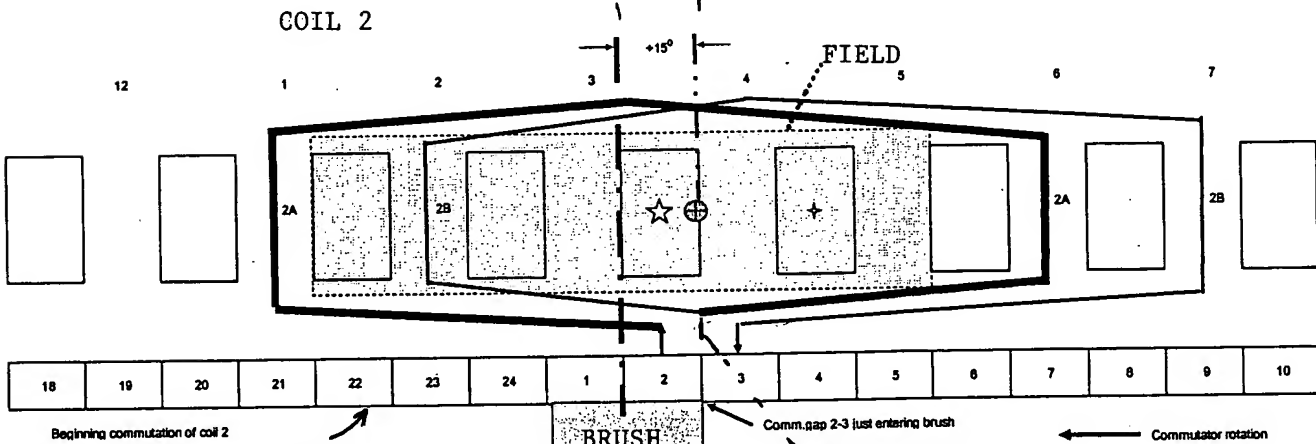
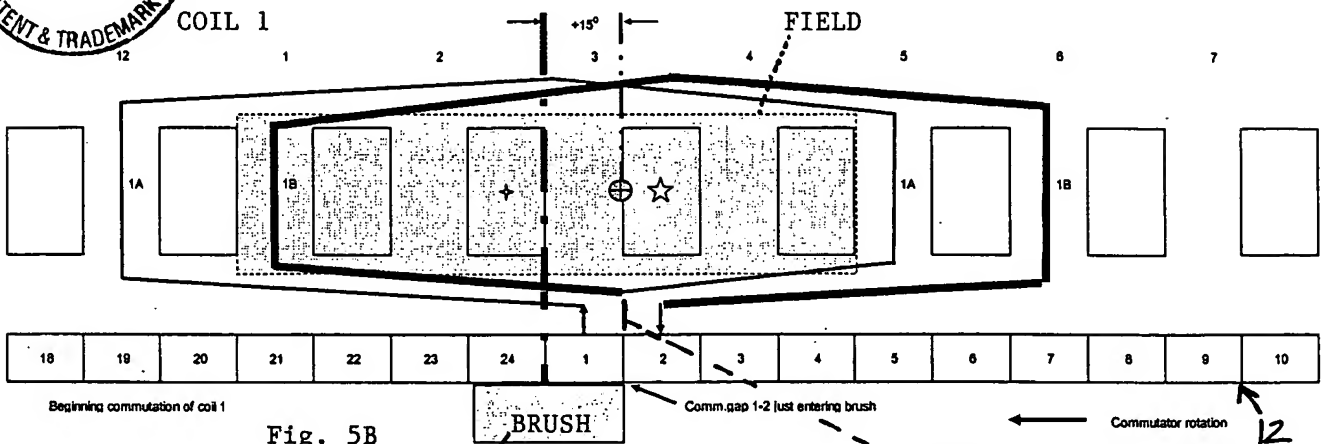


- Key:
- ☆ Magnetic axis of larger subcoil
  - ⊕ Magnetic axis of smaller subcoil
  - ⊕ MAGNETIC AXIS of total coil (resultant)
  - Axis of field pole and brush
  - - - Position of MAGNETIC AXIS at start of commutation
  - · · Position of MAGNETIC AXIS at end of commutation



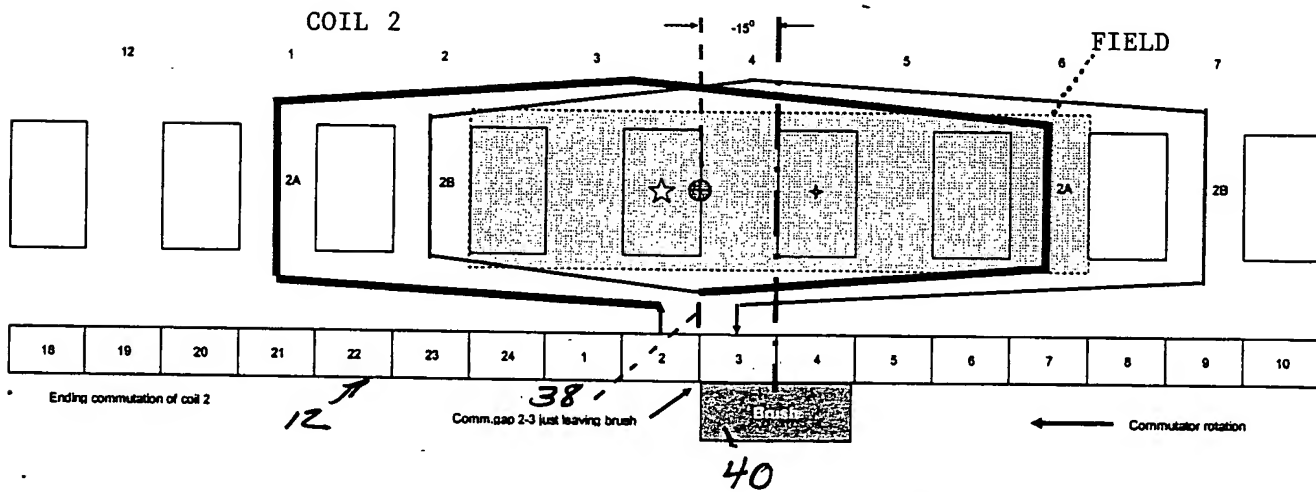
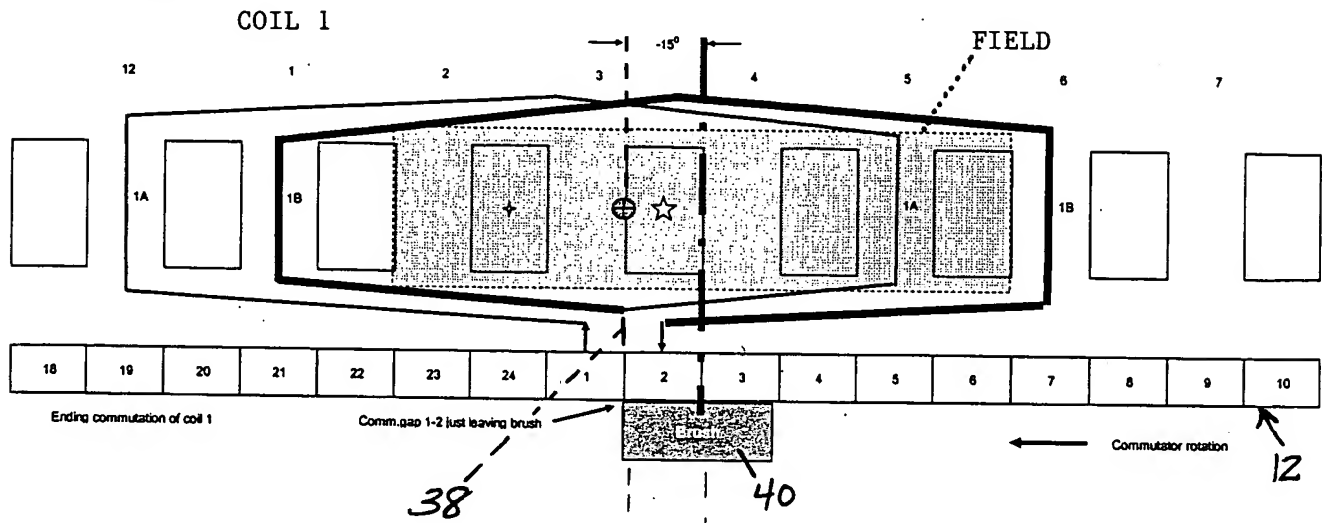
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- Key:
- ☆ Magnetic axis of larger subcoil
  - ⊕ Magnetic axis of smaller subcoil
  - ⊕⊕ MAGNETIC AXIS of total coil (resultant)
  - — — — — Axis of field pole and brush
  - . . . . . Position of MAGNETIC AXIS at start of commutation
  - — — — — Position of MAGNETIC AXIS at end of commutation



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- Key:
- ☆ Magnetic axis of larger subcoil
  - + Magnetic axis of smaller subcoil
  - ⊕ MAGNETIC AXIS of total coil (resultant)
  - Axis of field pole and brush
  - Position of MAGNETIC AXIS at start of commutation
  - Position of MAGNETIC AXIS at end of commutation

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